

What is Claimed is

1. (amended) A method for measuring the amount of β ig-h3 protein comprises the following steps:
- 5 1) Preparing recombinant β ig-h3 proteins comprising 4th fas-1 domains, their fragments or derivatives, as standard proteins;
- 2) Preparing specific ligands against the above recombinant proteins, their fragments or
10 derivatives of the above step 1; and
- 3) Measuring the amount of β ig-h3 protein of samples with the method using binding reaction of ligands of the above step 2 with the recombinant proteins, their fragments or
15 derivatives of the above step 1.
2. The method for measuring the amount of β ig-h3 protein as set forth in claim 1, wherein the ligands of step 1) are selected from a group
20 consisting of antibodies, RNA, DNA, lipids, proteins, organic compounds and inorganic compounds.
3. The method for measuring the amount of β ig-h3 protein as set forth in claim 1, wherein the
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specific binding reaction of step 3) is antigen-antibody reaction.

4. The method for measuring the amount of β ig-h3 protein as set forth in claim 3, wherein the antigen-antibody reaction is performed by a method selected from a group consisting of immunoblotting, immunoprecipitation, ELISA, RIA, protein chip, rapid assay and microarray.

5. (amended) The method for measuring the amount of β ig-h3 protein as set forth in claim 3, wherein the antigen-antibody reaction of step 3) comprises the following steps:

- 1) Coating recombinant β ig-h3 proteins comprising 4th fas-1 domains, their fragments or derivatives to matrix;
- 2) Reacting antibody against the protein of the above step 1, its fragments or derivatives with sample;
- 3) Adding the reactant of the above step 2 to the coated protein of step 1 and waiting for reaction, and then washing thereof; and
- 4) Adding the secondary antibody to the reactant of the above step 3 for further reaction, and then measuring OD.

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6. The method for measuring the amount of β ig-h3 protein as set forth in anyone of claim 1-5, wherein the β ig-h3 protein is human β ig-h3 protein having amino acid sequence represented by SEQ. ID. NO 3 or mouse β ig-h3 protein having amino acid sequence represented by SEQ. ID. No 5.

7. (amended) The method for measuring the amount of β ig-h3 protein as set forth in anyone of claim 1-5, wherein the recombinant β ig-h3 proteins comprising 4th fas-1 domains have 1-10 repeatedly-linked fas-1 domains.

8. The method for measuring the amount of β ig-h3 protein as set forth in claim 7, wherein the fas-1 domain of β ig-h3 is selected from a group consisting of sequences represented by SEQ. ID. No 7, No 8, No 9 and No 10.

9. The method for measuring the amount of β ig-h3 protein as set forth in claim 1, wherein the sample can be any body fluid including urine, blood or synovial fluid.

10. A diagnostic kit for the renal diseases, hepatic

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diseases, rheumatoid arthritis or cardiovascular diseases comprising β ig-h3 protein or recombinant proteins of fas-1 domain in the β ig-h3 protein (including their fragments or their derivatives) and their ligands.

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11.The diagnostic kit as set forth in claim 10, wherein the ligand is selected from a group consisting of antibody specifically binding to β ig-h3 protein, fas-1 domain of β ig-h3, their fragments or derivatives, RNA, DNA, lipids, proteins, organic compounds and inorganic compounds.

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12.The diagnostic kit as set forth in claim 11, wherein the ligand is antibody.

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13.The diagnostic kit as set forth in claim 12, wherein the kit additionally includes buffer solution, secondary antibody, washing solution, stop solution or coloring substrate.

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14.The diagnostic kit as set forth in claim 10, wherein the β ig-h3 protein is human β ig-h3 protein having amino acid sequence represented by SEQ. ID. No 3 or mouse β ig-h3 protein having

amino acid sequence represented by SEQ. ID. No 5.

15. The diagnostic kit as set forth in claim 10,
wherein 1 or 2-10 4th fas-1 domains of β ig-h3
protein are repeatedly linked.

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16. The diagnostic kit as set forth in claim 15,
wherein the fas-1 domain of β ig-h3 is selected
from a group consisting of sequences represented
by SEQ. ID. No 7, No 8, No 9 and No 10.

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